

Specifications (Vision Line II) -

1) Vision Line II General Description

1.1 For this point forward SMC shall be referred to as the console contractor.

1.2 Vision Line II is a console that is designed to accommodate numerous kinds of computers, communication equipment, and user interface devices (ex. Keyboards, mice, etc.).

The console is to be a design that is completely modular, totally interchangeable and easily reconfigured by the user. There are to be different frame widths (24", 30", 36", 48", 60" and 72") that are standard. There are 90-degree corners along with wedge designs that allow for Convex and Concave layouts (they are to be available in 30, 45 and 60-degrees). Standard height of the console is 43". All units are bolted together allowing total design flexibility.

The frames are constructed in such a manor as to allow back-to-back configurations in straight, convex, and concave layouts. The frame itself remains the center spine for the back-to-back work surfaces with access to cable management from either side of the frame's front and the top.

There are numerous options such as peninsulas, binder storage, and storage cabinets.

1.3 The consoles shall accommodate a variety of computers, communication equipment, CRT or Flat Panel displays and operator interface devices. The design of the consoles should also satisfy the functional, ergonomic and aesthetic requirements of the operational working environment.

1.4 Construction -

All construction supplied by the contractor shall be of such a design that will allow for 24/7 utilization of the consoles supplied.

Constructed of formed cold rolled steel, this open architecture design provides:

The frames are to be constructed from 14 Ga.* cold roll steel (as a minimum) to support all of the required accessories, work surfaces, cables, and user interfaces.

- a. Full Access (front and rear) where ever possible to house terminals and CPUs
- b. Air circulation throughout the entire installation
- c. Fully removable rear doors and front panels requiring no tools
- d. Monitor mounts are adjustable to enhance viewing angle
- e. Cable Management run flexibility
- f. Unparalleled strength and durability for 24/7 operations.

1.5 Doors and Access –

Front access panels are constructed of 20 Ga. cold rolled steel, providing durability and strength. Rear Doors are hinged to allow access to cable management within frame. With the exception of the work surface top, rear doors, and trim pieces, the entire unit is made of steel.

1.6 Work Surface –

The console shall have a minimum 1.25" (50mm) thick work surface with post-formed front edge, T-Mold or specific edging for operator comfort can be supplied. Work surfaces are constructed of high-pressure post-formed grade laminate applied to .45 lb. industrial grade board for durability. A thermal fused melamine backer is applied to seal the board and eliminate rough surfaces on the underside of the work surface and to prevent moisture access to the work surface.

2) Standards

2.1 Optional rack mount insert shall comply with Electronic Industry Association (E.I.A.) specifications for rack mounting ANSI/EIA standard RS-310.

2.2 The consoles shall be manufactured to industry recognized quality and ergonomic standards (BIFMA, ISO, ANSI).

3) Drawings

3.1 The contractor shall supply sets of scaled drawings for each console assembly showing the location of all the specified electronics in isometric view in addition to a plan (top down) and elevation views.

3.2 The specification of sizes and dimensions shown in the drawings shall have a tolerance of not more than +/- 0.062" (1.6mm).

4) Modular Pre-Engineered Construction

All components within the system shall be:

4.1 Of a pre-engineered modular construction, i.e.: constructed from a series of independent sectional compartments.

4.2 Available from a pre-defined set of manufacturer's model numbers.

4.3 Free from alterations to the design either prior to or following installation, will be accomplished without the need for either welding or carpentry work.

4.4 Capable of cables or conduits passing through the complete width of the system without obstruction.

4.5 Constructed of a steel superstructure framework with external decorative laminated panels.

5) Self-Supporting Skeleton Framework

The self-supporting skeleton framework shall:

5.1 Be installed onto the site in advance of any external finishing panels. The framework shall be fully capable of supporting all specified electronics without the need for attachment of any external panels.

5.2 Include modular sections and be constructed of 14 and 16 Ga.* (.074" and .059") sheet metal. Console sections shall be secured together by use of #1/4-20 bolts. All welds exposed to the front shall be filed smooth and sharp contours eliminated.

6) Components

6.1 Frames –

Design is open architecture style consisting of framework in 14 Ga. cold rolled steel materials to provide durability, strength, modularity and complete cable run flexibility.

Frames are modular in design that comes in different frame widths (24", 30", 36", 48", 60" and 72") that are standard. There are 90-degree corners along with wedge designs that allow for Convex and Concave layouts (they are to be available in 30, 45 and 60-degrees). Standard height of the console is 43".



Frames are designed to allow for mounting of accessories such as Flat Panel Monitor mounts utilizing slat wall that can be used along with monitor mounting on work surfaces. The frames are designed to allow for other accessories such as shelving, white boards, light mounts, and desk top management storage products.

All frame modules are equipped with leveling feet to insure uniformity and tight fit.

6.2 Storage -

A storage area is provided below the work surface that allows for a number of different storage accessories. These accessories are to be CPU Storage Swing Out doors and/ or CPU Storage Cabinets for CPU storage with ventilation and access. The storage cabinets should also allow for rack mount capability if required without modification to the cabinet.

6.3 Monitor Mounts –

With the advances in the Flat Panel mount, the console shall provide means of supporting both CRT and/or Flat Panel monitors, either with optional monitor mounts or a means of supporting monitors on the work surface.

The mounts shall be of such construction to be able to support monitors based on user requirements such as size and weight.

Slat Wall mounted flat panel mounts shall be of a design allows for vertical height adjustment and horizontal adjustment utilizing Slat Wall design.

6.4 Cable Management and Utility Power –

Cable management shall be provided in all consoles with access available to the user from either the front or rear of the console. The cable management shall allow for separation of Data/Communications cables from Power runs. The cable management shall be designed to fit into troughs that will allow unobstructed paths throughout the console. Front access for these troughs is available from lift off doors that allow access to jacks and power strip outlets. Rear access is available with the hinged doors and a trough at the top of the frame is accessible via the removable (free from use of tools) top cap.



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Power Strip mounts and/or modular electrical power runs (electrical distribution option that brings in (4) – 20 amp or 15 amp circuits to the console) are made available in the frames cable management and again are accessible from either the front or rear of the cabinets. Storage cabinets that support the storage of CPUs are also to be designed with cable management and power support.

6.5 Panels -

Side Panels are constructed from .75" thick laminated particle board.

Storage cabinet panels are constructed of 18 gauge cold rolled steel to provide durability and strength.

6.6 Work Surfaces and Adjustable Work Surfaces –

The console shall have a minimum 1.25" (50mm) thick work surface with post-formed edge, T-Mold or specific edging for operator comfort. Work surfaces are constructed of high-pressure post-formed grade laminate applied to .45 lb. industrial grade board for durability. A thermal fused melamine backer is applied to seal the board and eliminate rough surfaces on the underside of the work surface and to prevent moisture access to the work surface.

The ability to lift the keyboard work surface is achieved by a mechanical device that is used for the lift of the keyboard work surface. You have the ability to adjust 12" vertically from the position of the main work surface (6" above and 6" below).

6.7 Keyboard Management -

Keyboard management options consist of:

- a. Keyboards on the work surface
- b. Keyboards on a specific keyboard surface utilizing a mechanical lift assembly.
- c. Rollout keyboards below the work surface
- d. Keyboard switch (operating a min. of 2 or 3 monitors - KVM)
- e. Articulating keyboard and mouse platform

6.8 Exterior End Panels

The exterior panel elements shall be attached to the console structure by means of concealed hardware.



7) Finish and Color

7.1 All exterior and frame steel components including drawers, blank panels, and shelving shall be zinc oxide wash primer with an enamel paint finish. Manufacturer offers a variety of **7** different baked, enamel finishes and **14** laminate colors.

7.2 All wooden components are to be supplied with a high-pressure laminate covering the .45 lb. industrial grade board core.

8) Optional Accessories

All accessory storage cabinets, mobile drawer pedestals, printer stands, binder storage, etc. shall be constructed of materials and finishes to match the console exterior. They are to meet or exceed the quality levels established by industry standards, to the configuration and dimensions identified in the contract drawings.

8.1 Other options consist of:

- a. Power Strips and Electrical Distribution Wiring
- b. Accessories for the paneled slat wall (Pen holders, accessory trays, paper trays, white boards, Tracked monitor mounts, etc.)
- c. Storage pedestals
- d. Task Lighting
- e. Telephone mounts
- f. Rack Mounting Cabinets (above or below the work surface)
- g. CPU Storage Pedestals
- h. CPU Storage on Swing Out Doors
- i. Credenzas
- j. Printer and Fax Cabinets
- k. File Cabinets
- l. Rotating Binder Storage Cabinets
- m. Desks and auxiliary work stations

All custom woodwork options (file cabinets, binder storage, and credenzas) are made to match console laminates and paint.

9) Mounting Hardware

9.1 Mounting hardware for the specified electronics shall be available upon request. Any hardware needed for assembly will be provided.

10) Instructions/ Installation

10.1 The console contractor can provide installation, labor, site supervision, support and service.

10.2 Modules shall be able to be assembled using standard tools. NO site cutting or drilling is required. Each module shall be rigid and self-supporting to permit individual removal, relocation or modification of adjacent modules. Console construction shall provide the flexibility for future console layout, equipment, and configuration changes.

10.3 Fully detailed assembly instructions in the English language shall be supplied with both written and pictorial descriptions for each item/model numbered component.

11) Packaging/Shipping

11.1 The console contractor shall be responsible for packing the components in a manner that will ensure undamaged and complete arrival at the destination.

11.2 The console contractor shall provide consoles stripped down and shipped with the minimal amount of packaging materials.

11.3 Consoles are shipped blanket wrapped and shipped by professional moving van on air ride trailers.

12) Warranty

12.1 The manufacturer shall provide a written lifetime guarantee against defects of all steel products of its manufacture shall be free from defects in materials and workmanship for as long as the original purchaser owns the product.